

**d. Remarks**

Drawing Amendment

Applicants request approval of an amendment to Figure 12 in which reference numeral “17” is replaced by reference numeral –117 -- as seen on the Replacement Sheet. The amendment makes Figure 12 conform to the specification at page 14, lines 4 – 6. This repeats a request made via a preliminary amendment filed on July 15, 2003.

Responses to Claim Rejections

At page 2, the Office Action rejects claims 1 – 19 as anticipated by the abstract “A Miniaturized Two-Photon Fiber-Scanning Microscope for In Vivo Imaging”, F. Helmchen et al, Abstracts, Society for Neuroscience, vol. 25, August 1999 (Herein, referred to as Helmchen.).

Independent Claim 1

While claim 1 recites a “processor configured to assign intensities to image pixels based on the measured intensities of light in a manner that compensates for variations in the density of the scanned spots”, Helmchen does not disclose such a feature. In contrast to claim 1, Helmchen makes no suggestion of “compensating for variations in the density of scanned spots”. Due to the absence of a prior art teaching for this feature, Helmchen does not anticipate claim 1.

Dependent Claims 2 – 10

Dependent claims 2 – 10 are novel, at least, by their dependence on novel base claim 1.

Independent Claim 11

While claim 11 recites “assigning intensities to image pixels based on measured intensities of light emitted by the scanned spots, the assigning including tracking numbers of ones of the scanned spots that correspond to ones of the image pixels based on locations of the scanned spots”, Helmchen does not teach such a feature. In contrast to claim 11, Helmchen makes no suggestion of an assignment step that includes “tracking

numbers of ones of the scanned spots that correspond to ones of the image pixels based on locations of the scanned spots". Due to the absence of a prior art teaching for this feature, Helmchen does not anticipate claim 11.

Dependent Claims 12 – 19

Dependent claims 12 – 19 are novel, at least, by their dependence on novel base claim 1.

Conclusion

For the above reasons, Applicants request allowance of claims 1 – 19.

In the event of any non-payment or improper payment of a required fee, the Commissioner is authorized to charge or to credit **Lucent Technologies Deposit Account No. 12-2325** to correct the error.

Respectfully,

By John McCabe

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Date: Sept. 2, 2004  
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**d. Amendments to Drawings**

Please amend Figure 12 as shown on the attached Replacement Sheet.